M.A.L.T.A.™ Mount
Manual ALTitude Azmimuth

Coronado has built a small, rugged, and portable Alt-azimuth mount, M.A.L.T.A.™, to be used with the P.S.T.™. The threads on the bottom of the P.S.T.™ will accept any standard ¼ 20 pitch photographic or astronomy mounting accessories. To use the M.A.L.T.A.™ attach it to the P.S.T.™ using the two screws included with the M.A.L.T.A.™. Then secure the mount head to the base using the tension screw going thru the top down into the base. The individual legs then thread into their holes. By loosening the tension screw one can adjust the azimuth or horizontal axis, retighten the tension screw to freeze that axis. The silver tension screw on the mount head will adjust the altitude or vertical axis when loosened and hold the P.S.T.™ firm when tightened down. See the section on Sol Ranger™ for precise alignment.

Sol Ranger ™

The P.S.T.™ has been designed with an internal Sol Ranger™ Sun spotting device. There is a small pinhole on the front face of the P.S.T.™ body and a small opaque window on the top, near the eyepiece holder. When properly aligned on the Sun the pinhole will let in light that will be projected onto the opaque glass in the form of a small harmless ball. It is NOT necessary to put your eye up to the opaque glass. Best alignment will be found when this ball of light is near center but it is not always dead center. Adding a SM40/T-Max™ will obstruct the Sol Ranger™.

Cleaning

Cleaning the P.S.T.™should be done with a fine camel hair brush to remove any dirt from the objective. High quality lens cleaner and a soft cloth can also be used on the objective and the body itself. Take care of the P.S.T.™ as you would any high quality optical instrument and the views will last a lifetime.

What You Will See With The Coronado Personal Solar Telescope™.

The narrowband filter whithin the P.S.T.™ isolates a specific bandwidth of light called Hydrogen Alpha. This allows one to view the Sun's Chromosphere. The image of the Sun will be a deep red across the entire disk. Be aware that it can take time to 'train' one's eye for H-Alpha viewing. This instrument was designed for single eyepiece visual use only. Coronado will not guarantee the performance of aftermarket products, including eyepieces, other than those built by Coronado for the P.S.T.™.

Prominences – H-Alpha emissions projecting beyond the limb of the Sun, consisting of complex clouds or streamers of gas above or in the chromosphere.

Filaments – Prominences seen against the face of the Sun, appearing as long narrow dark streamers or diffuse complex dark areas in H-Alpha light. Filaments often mark areas of magnetic shearing

Active Region - A localized, transient volume of the solar atmosphere in which plages, Sunspots, and flares may be observed. Active regions are the result of enhanced magnetic fields and appear darker than the surrounding areas with a roughly circular shape.

Plage – patchy H-Alpha brightening on the solar disk, usually found in or near active regions, which can last for several days. Plage is irregular in shape and variable in brightness, marking areas of nearly vertical emerging or reconnecting magnetic field lines.

Sunspots – Moderate to large spots usually consist of a darker central region (umbra) and a lighter halo consisting of many short fine fibrils (penumbra).

Flares - A sudden eruption of energy in the solar atmosphere lasting minutes to hours, from which radiation and particles are emitted.

CORONADO™

P.S.T.™
Personal Solar Telescope™
Instruction Manual

Solar Image by Gary Palmer,
www.solarminimum.com
Coronado P.S.T.

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Coronado Safety Warnings

As with all of our solar viewing products the P.S.T.™has been built with safety as the top priority. This instrument was tested and sealed at our facilities as a complete, safe, and working unit. Do not attempt to disassemble the P.S.T.™ . Doing so will void your warranty and may compromise your safety. Coronado is obsessed with safety and you should be too. Details of our safety specifications can be found at www.coronadofilters.com. Never use a solar filter unless the manufacturer is able to provide such information. Before each use make sure the P.S.T.™ does not appear damaged in any way – if you have any questions please contact Coronado or your dealer.